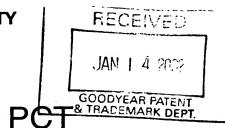
PATENT COOPERATION FREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

KRAWCZYK, Nancy T.
THE GOODYEAR TIRE & RUBBER COMPANY
Patent Section - D/823
1144 East Market Street
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ETATS-UNIS D'AMERIQUE



NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

03.01.2002

Applicant's or agent's file reference

DN1999195PCT

PCT/US99/21694

International application No.

International filing date (day/month/year)

20/09/1999

Priority date (day/month/year)

IMPORTANT NOTIFICATION

20/09/1999

Applicant

THE GOODYEAR TIRE & RUBBER COMPANY et ai.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

- European Patent Office D-80298 Munich

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Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		_	nt's file reference	FOR FURTHER ACT			tion of Transmittal of Internat Examination Report (Form P	
DN19	9991	95P	CT					
•••				International filing date (da	y/month/yea		Priority date (day/month/year)	
PCT/				20/09/1999			20/09/1999	
			nt Classification (IPC) or n	ational classification and IPC				
C08J	5/12							
Applica	ant			•••••	•		•	
THE	GOC	DY	EAR TIRE & RUBBE	R COMPANY et al.				
4 7		A	Ained audiminant avan	nination report has been pr	ropared by	this Inton	national Preliminary Eval	mining Authority
				according to Article 36.	epareu by	uns men	national Freiminary Exa	mining Additionty
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2. Ti	his R	FPO	RT consists of a total of	f 4 sheets, including this c	over sheet	t.		
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	be (s)	en a	mended and are the ba ule 70 16 and Section (sis for this report and/or st 607 of the Administrative In	neets conta estructions	aining reci under the	tifications made before to PCT).	nis Authority
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TI	These annexes consist of a total of 3 sheets.							
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				ating to the following items			7	
3. TI	This report contains indications relating to the following items: Basis of the report Priority							
	I ⊠ Basis of the report							
	11		Priority					
	Ш		Non-establishment of	opinion with regard to nove	elty, invent	ive step a	nd industrial applicability	,
	IV		Lack of unity of invent					
	٧	×	Reasoned statement of	under Article 35(2) with regions suporting such statem	ard to nov	elty, inver	ntive step or industrial ap	plicability;
	VI		Certain documents ci					
,	VII		Certain defects in the	international application				
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preliminary examining authority: European Patent Office								
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			+49 89 2399 - 4465	·	Telephone N	No +49 89 :	2399 7582	AU DOWN - ZONO

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/21694

I.	Bas	sis of th rprt				
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:					
	1-1	5	as originally filed			
	Cla	ims, No.:				
	1-17	7	as received on	03/12/2001	with letter of	29/11/2001
	Dra	wings, sheets:				
	1/7,	4/7-7/7	as originally filed			
	2/7,	3/7	as received on	11/09/1999	with letter of	10/09/1999
2.	2. With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is:					this Authority in the this item.
						which is:
		the language of a	translation furnished for the purp	poses of the ir	nternational search (ur	nder Rule 23.1(b)).
		the language of pu	ublication of the international app	plication (unde	er Rule 48.3(b)).	
		the language of a 55.2 and/or 55.3).	translation furnished for the purp	poses of inter	national preliminary ex	amination (under Rule
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
		contained in the in	ternational application in written	form.		
		filed together with	the international application in o	omputer read	able form.	
	☐ furnished subsequently to this Authority in written form.					
		furnished subsequ	ently to this Authority in comput	er readable fo	orm.	
			t the subsequently furnished wr pplication as filed has been furn		e listing does not go be	eyond the disclosure in
		The statement tha listing has been fu	t the information recorded in cor rnished.	mputer readat	ole form is identical to t	the written sequence

Form PCT/IPEA/409 (Boxes I-VIII, Sheet 1) (July 1998)

4. The amendments have resulted in the cancellation of:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/US99/21694

		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5. 🗆		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):					
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)					
6.	Add	itional observations, i	f necessary:				

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
- 1. Statement

Novelty (N)

Yes:

citations and explanations supporting such statement

Claims

No:

Claims 1-2

Inventive step (IS)

Yes:

Claims

Claims 3-17

Industrial applicability (IA)

Yes:

Claims 1-17

No:

No:

Claims

2. Citations and explanations see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Reference is made to the following document (D):

D1: EP 0 795 397 A (GOODYEAR TIRE & RUBBER) 17 September 1997 (1997-09-17) cited in the application

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document D1 discloses a method of bonding at least two elastomeric layers, the 1. method comprising placing an uncured elastomeric component between the two elastomeric layers and curing the elastomeric component to bond the layers together. Furthermore D1 discloses that the uncured layer is formed by preparing the two elastomer compounds wherein each compound is prepared with a coreacting agent of a cure package not added to the other compound and layering said compound in alternating layers (p. 3, lines 4-13; example 1; claims 1 and 11).

It is pointed out, that a definition of the subject-matter of claim 2 by a result to be achieved (120°C, less than 30 min), cannot limit the scope of the claim (see The PCT Guidelines C-III 4.7).

Therefore, the present application does not meet the requirements of Article 33(2) PCT, because the subject-matter of claims 1 and 2 is not new.

The person skilled in the art would regard the subject-matter of claims 3-17 as 2. mere routine variations and therefore the subject-matter of claims 3-17 lacks inventive step (Article 33(3) PCT).





CLAIMS

- 1. A method of bonding at least two cured or uncured curable elastomeric layers, the method comprising placing an uncured elastomeric component (22) between the two elastomeric layers, and curing the elastomeric component (22) to bond the elastomeric layers together, wherein the method is characterized by forming the uncured elastomeric component (22) by
 - a) preparing two non-productive elastomer compounds (10, 12), wherein each non-productive compound (10, 12) is prepared with a co-reacting agent of a co-reacting cure package not added to the other non-productive compound (10, 12),
 - b) layering the non-productive elastomer compounds (10, 12) in alternating layers with a thickness relative to the diffusion rate of the co-reacting agents in each non-productive elastomeric layer to effect diffusion of the co-reacting cure agents through the adjacent layers.
- 2. A method of bonding in accordance with claim 1 wherein the elastomeric component (22) achieves ninety percent cure, at a cure temperature of 120° C, in less than 30 minutes.
- A method of bonding in accordance with claim 1, the improvement being characterized by preparing the two non-productive compounds (10, 12) with identical compositions except for the co-reacting cure agents in each compound (10, 12).
- 4. A method of bonding in accordance with claim 1, the improvement being characterized by forming each adjacent layer with a thickness equal or less than 2 mm.
- 5. A method of bonding in accordance with claim 1, the improvement being characterized by layering the two non-productive elastomer compounds (10, 12) with differing thickness.
- 6. A method of bonding in accordance with claim 1, the improvement being characterized by the further step of storing the two non-productive compounds (10, 12) for a period of time prior to layering.

AMENDEL SHEET





- 13. •A method of bonding in accordance with claim 12, the method being characterized by forming the uncured elastomeric component (102) immediately prior to inserting the elastomeric component (102) between the tire carcass (106) and the tire tread (104).
- 14. A method of bonding in accordance with claim 12, the method being characterized by forming the uncured elastomeric component (102) at any time prior to inserting the elastomeric component (102) between the tire carcass (106) and the tire tread (104).
- A method of bonding in accordance with claim 12, the method being characterized by the further step of preheating the tire tread (104) prior to placing the tread (104) on the uncured elastomeric component (102).
- 16. A method of bonding in accordance with claim 15, the method being characterized by curing the elastomeric component (102) at room temperature.
- 17. A method of bonding in accordance with claim 1, the method being characterized by the co-reacting agents of the cure package being selected to produce an ultra fast cure.

ANGENIED CHEEK



Creation date: 11-01-2003

Indexing Officer: HLE11 - LE HUNG

Team: OIPEBackFileIndexing

Dossier: 10031500

Legal Date: 04-01-2002

No.	Doccode	Number of pages
1	M903	2

Total number of pages: 2

Remarks:

Order of re-scan issued on